



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Brain Tumor Diagnosis and Outcome Prediction

the specification of which (check one)

[] is attached hereto.

[X] was filed on January 31, 2002 as United States ApplicationNumber or PCT International Application No. 10/066,305

and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]

10066305 "061002

[illegible]

Mailing Address Same as above

Mailing Address Same as above

Mailing Address Same as above

Mailing Address Same as above



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Brain Tumor Diagnosis and Outcome Prediction

the specification of which (check one)

[] is attached hereto.

[X] was filed on January 31, 2002 as United States ApplicationNumber or PCT International Application No. 10/066,305

and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]

10066305-061002

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Todd R. Golub

Inventor's Signature _____ Date _____

Residence 65 Waldorf Road

Newton, Massachusetts 02164

Citizenship U.S.A.

Mailing Address Same as above

Full name of second joint

inventor, if any Eric S. Lander

Inventor's Signature _____ Date _____

Residence 151 Bishop Allen Drive

Cambridge, Massachusetts 02139

Citizenship U.S.A.

Mailing Address Same as above

Full name of third joint

inventor, if any Scott Pomeroy

Inventor's Signature Scott Pomeroy Date 4.22.02

Residence 77 Beaconwood Road, Apt. 11

Newton, Massachusetts 02461

Citizenship U.S.A.

Mailing Address Same as above

Full name of fourth joint

inventor, if any Pablo Tamayo

Inventor's Signature _____ Date _____

Residence 71 Howard Street

Cambridge, Massachusetts 02139

Citizenship Mexico

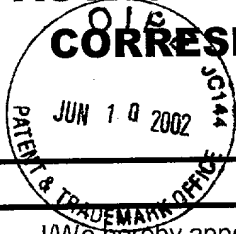
Mailing Address Same as above

20020906 061003

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

#3

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS



Application Number	10/066,305
Filing Date	January 31, 2002
First Named Inventor	Todd R. Golub
Group Art Unit	1632
Examiner Name	Unknown
Attorney Docket Number	2825.2023-001

I/We hereby appoint

- ☒ the attorneys/agents associated with **Customer No. 021005**
☐ Practitioner(s) named below:

as my/our attorneys/agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

The correspondence address for the above-identified application is:

- ☒ Customer Number 021005
 Hamilton, Brook, Smith & Reynolds, P.C.
 530 Virginia Road
 P.O. Box 9133
 Concord, Massachusetts 01742-9133
☐ Other _____

Please direct all telephone calls and facsimiles to:

Name Lisa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136

I am the:

- ☐ Applicant/Inventor.
☐ Authorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed.
☒ Authorized representative of an assignee together with Dana-Farber Cancer Institute, Inc. and Children's Medical Center Corporation of the entire interest. A separate Statement under 37 C.F.R. § 3.73(b) is enclosed.

SIGNATURE of Applicant or Assignee of Record

Name	Patricia Granahan, Esq.
Signature	<i>Patricia Granahan</i>
Date	<i>May 20, 2002</i>

- ☒ Total of 3 forms are submitted.

STATEMENT UNDER 37 C.F.R. § 3.73(b)Applicants: Todd R. Golub, Eric S. Lander, Scott Pomeroy and Pablo TamayoApplication No.: 10/066,305 Filed: January 31, 2002For: Brain Tumor Diagnosis and Outcome PredictionWhitehead Institute for Biomedical Research, a

(Name of Assignee)

corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. ☐ the assignee of the entire right, title and interest in the patent application identified above; or
- B. ☒ an assignee together with Dana-Farber Cancer Institute, Inc. of the entire right, title and interest in the patent application identified above. A separate Statement under 37 CFR § 3.73(b) is being submitted.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: May 31, 2002Name: Patricia GranahanTitle: Patent CounselSignature: Patricia Granahan

COPYDocket No. 2825,2023-001Multi-Joint**ASSIGNMENT**

WHEREAS, we, **Eric S. Lander and Pablo Tamayo**, together with co-inventors **Todd R. Golub and Scott Pomeroy**, have invented a certain improvement in **Brain Tumor Diagnosis and Outcome Prediction** described in an application for Letters Patent of the United States, the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on **January 31, 2002** as Application No. **10/066,305**;
- ☐ was patented under U.S. Patent No. ☐ on ☐.

WHEREAS, **Whitehead Institute for Biomedical Research** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at **Nine Cambridge Center, Cambridge, Massachusetts 02142** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE'S selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

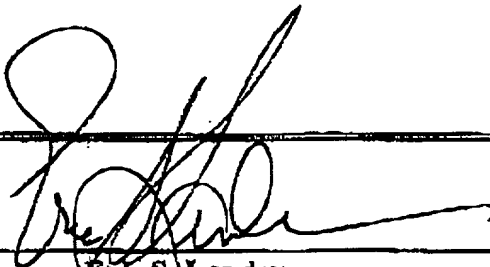
10066305-061002

-2-

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____


Eric S. Lander


State/Commonwealth

of Massachusetts

County of Middlesex

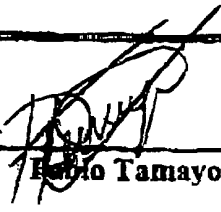
Then personally appeared before me the above-named Eric S. Lander and acknowledged that he executed the foregoing instrument as his free act and deed this 3rd day of April, 2002.

(SEAL)

 Notary Public
Carol Macdonald (print name)

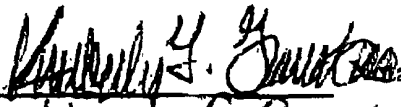
My Commission expires 12/19/08

10066305-064002

Inventor's Signature: 
Pablo Tamayo

State/Commonwealth of Massachusetts
County of Middlesex

Then personally appeared before me the above-named Pablo Tamayo and acknowledged that he executed the foregoing instrument as his free act and deed this 2nd day of April, 2002.

(SEAL)  Notary Public
Kimberly G. Granatino (name)
My Commission expires 8/14/06

10066305-061002

COPY

Docket No. 2825.2023-001Multi-SoleASSIGNMENT

WHEREAS, I, **Todd R. Golub**, together with co-inventors, **Eric S. Lander**, **Scott Pomeroy** and **Pablo Tamayo** have invented a certain improvement in **Brain Tumor Diagnosis and Outcome Prediction**, described in an application for Letters Patent of the United States, the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on **January 31, 2002** as Application No. **10/066,305**;
- ☐ was patented under U.S. Patent No. [] on [].

WHEREAS, **Whitehead Institute for Biomedical Research**, a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at **Nine Cambridge Center, Cambridge, Massachusetts 02142**, and **Dana-Farber Cancer Institute, Inc.**, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at **44 Binney Street, Boston, Massachusetts, 02115**; (hereinafter "**ASSIGNEES**"), desire to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said **ASSIGNEES**, their successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said **ASSIGNEES** for their own use and behalf and for their successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention, carries with it the right in **ASSIGNEES** to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of **ASSIGNEE's** selection and the right to procure the grant of all such Letters Patent to **ASSIGNEES** for their own name as assignees of the entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said **ASSIGNEES**, their successors, assigns and legal representatives, but at its or their expense and charges, including the

10066305-061002

-2-

execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEES, their successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor's Signature: _____

Todd R. Golub

State/Commonwealth _____

of _____

County of _____

Then personally appeared before me the above-named Todd R. Golub and acknowledged that he executed the foregoing instrument as his free act and deed this 14th day of March, 2002.

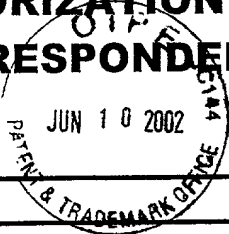
(SEAL)

Notary Public

My Commission expires 8/4/06

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS



Application Number	10/066,305
Filing Date	January 31, 2002
First Named Inventor	Todd R. Golub
Group Art Unit	1632
Examiner Name	Unknown
Attorney Docket Number	2825.2023-001

I/We hereby appoint

- ☒ the attorneys/agents associated with **Customer No. 021005**
☐ Practitioner(s) named below:

as my/our attorneys/agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

The correspondence address for the above-identified application is:

- ☒ Customer Number 021005
 Hamilton, Brook, Smith & Reynolds, P.C.
 530 Virginia Road
 P.O. Box 9133
 Concord, Massachusetts 01742-9133
☐ Other _____

Please direct all telephone calls and facsimiles to:

Name Lisa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136

I am the:

- ☐ Applicant/Inventor.
☐ Authorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed.
☒ Authorized representative of an assignee together with Dana-Farber Cancer Institute, Inc. and Whitehead Institute for Biomedical Research of the entire interest. A separate Statement under 37 C.F.R. § 3.73(b) is enclosed.

SIGNATURE of Applicant or Assignee of Record

Name	DONALD P. LOMBARDI Chief Intellectual Property Off.
Signature	<i>Donald P. Lombardi</i>
Date	5/21/02

- ☒ Total of 3 forms are submitted.

STATEMENT UNDER 37 C.F.R. § 3.73(b)Applicants: Todd R. Golub, Eric S. Lander, Scott Pomerov and Pablo TamayoApplication No.: 10/066,305 Filed: January 31, 2002For: Brain Tumor Diagnosis and Outcome PredictionChildren's Medical Center Corporation, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. ☐ the assignee of the entire right, title and interest in the patent application identified above; or
- B. ☒ an assignee together with Whitehead Institute for Biomedical Research and Dana-Farber Cancer Institute, Inc. of the entire right, title and interest in the patent application identified above. A separate Statement under 37 CFR § 3.73(b) is being submitted.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: 5/21/02Name: DONALD P. LOMBARDI
Chief Intellectual Property Officer

Title: _____

Signature: Donald P. Lombardi

2007-05-03 10:00:00

COPY

Docket No. 2825.2023-001

Multi-Sole

ASSIGNMENT

WHEREAS, I, **Scott Pomeroy**, together with co-inventors **Todd R. Golub, Eric S. Lander and Pablo Tamayo**, have invented a certain improvement in **Brain Tumor Diagnosis and Outcome Prediction**, described in an application for Letters Patent of the United States, the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on **January 31, 2002** as Application No. **10/066,305**;
- ☐ was patented under U.S. Patent No. ☐ on ☐.

WHEREAS, **Children's Medical Center Corporation** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Massachusetts** and having a usual place of business at **300 Longwood Avenue, Boston, Massachusetts 02215** desires to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

10066305-061002

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor

Scott Pomeroy

Scott Pomeroy

Date

4-10-02

Address

77 Beaconwood Rd. Apt. 11

Newton MA 02461

Witness

Brenda Manning

Address

158 Canton Street

North Canton, MA 02356

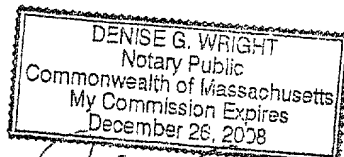
Witness

Monique Seal-Turk

Address

66 Bristol St

Cambridge, MA 02144

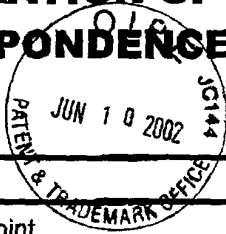


Denise G. Wright
Denise G. Wright

10066305-061002

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS	Application Number	10/066,305
	Filing Date	January 31, 2002
	First Named Inventor	Todd R. Golub
	Group Art Unit	1632
	Examiner Name	Unknown
	Attorney Docket Number	2825.2023-001



I/We hereby appoint

☒ the attorneys/agents associated with Customer No. 021005☐ Practitioner(s) named below:

as my/our attorneys/agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

The correspondence address for the above-identified application is:

☒ Customer Number 021005

Hamilton, Brook, Smith & Reynolds, P.C.

530 Virginia Road

P.O. Box 9133

Concord, Massachusetts 01742-9133

☐ Other _____

Please direct all telephone calls and facsimiles to:

Name Lisa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136

I am the:

☐ Applicant/Inventor.☐ Authorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed.☒ Authorized representative of an assignee together with Whitehead Institute for Biomedical Research and Children's Medical Center Corporation of the entire interest. A separate Statement under 37 C.F.R. § 3.73(b) is enclosed.**SIGNATURE of Applicant or Assignee of Record**Name Pamela ArinielloSignature *Pamela Ariniello*Date May 20, 2002☒ Total of 3 forms are submitted.

STATEMENT UNDER 37 C.F.R. § 3.73(b)Applicants: Todd R. Golub, Eric S. Lander, Scott Pomeroy and Pablo TamayoApplication No.: 10/066,305 Filed: January 31, 2002For: Brain Tumor Diagnosis and Outcome PredictionDana-Farber Cancer Institute, Inc., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. ☐ the assignee of the entire right, title and interest in the patent application identified above; or
- B. ☒ an assignee together with Whitehead Institute for Biomedical Research and Children's Medical Center Corporation of the entire right, title and interest in the patent application identified above. A separate Statement under 37 CFR § 3.73(b) is being submitted.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: May 21, 2002Name: Pamela ArinielloTitle: Chief Patent CounselSignature: Pamela Ariniello

2002-05-24 17:24

COPY

Docket No. 2825.2023-001Multi-SoleASSIGNMENT

WHEREAS, I, **Todd R. Golub**, together with co-inventors, **Eric S. Lander**, **Scott Pomeroy** and **Pablo Tamayo** have invented a certain improvement in **Brain Tumor Diagnosis and Outcome Prediction**, described in an application for Letters Patent of the United States, the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on **January 31, 2002** as Application No. **10/066,305**;
- ☐ was patented under U.S. Patent No. ☐ on ☐.

WHEREAS, **Whitehead Institute for Biomedical Research**, a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at **Nine Cambridge Center, Cambridge, Massachusetts 02142**, and **Dana-Farber Cancer Institute, Inc.**, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at **44 Binney Street, Boston, Massachusetts, 02115**; (hereinafter "ASSIGNEES"), desire to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEES, their successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEES for their own use and behalf and for their successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention, carries with it the right in ASSIGNEES to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEES for their own name as assignees of the entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEES, their successors, assigns and legal representatives, but at its or their expense and charges, including the

-2-

execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEES, their successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor's Signature: _____

Todd R. Golub

Todd R. Golub

State/Commonwealth _____

of _____

Massachusetts

County of _____

Middlesex

Then personally appeared before me the above-named Todd R. Golub and acknowledged that he executed the foregoing instrument as his free act and deed this 14th day of March, 2002.

(SEAL)

Kimberly G. Granata

Notary Public

Kimberly G. Granata (print name)

My Commission expires

8/4/06